SONY INTERNATIONAL (EUROPE) GMBH
S98P5023EP00
PAE98-023TRDE
Our File: P 20672 EP

Claims

1. Method for allocating time slots in a time division duplex communication system, in which the information is transmitted in predetermined time frames (F) having a predetermined number of time slots, whereby each time frame (F_1, F_2,...) comprises a fixed block of one receiving time slot (2) and one transmitting time slot (1) being adjacent to each other, comprising the step of allocating at least the time slot (3) adjacent to the receiving time slot (2) as additional receiving time slot and at least the time slot (8) adjacent the transmitting time slot (1) as additional transmitting time slot dependent on an amount of information to be transferred.

2. Method for allocating time slots according to claim 1,
characterized in,
that the number of additional receiving time slots and the number of additional transmitting time slots are independent from each other.

3. Method for allocating time slots according to claim 1,
characterized in,
that the one receiving and one transmitting time slot (2, 1) of the fixed block are allocated to a first communication unit (10), whereby the transmitting time slot (1) is preceding the receiving time slot (2).

4. Method for allocating time slots according to claim 3,
characterized in,
that the additional slots are also allocated to the first communication unit (10).

5. Method for allocating time slots according to ~~one of the claims 1 to 3~~ claim 1,
characterized in,
that one of time frame (F_1, F_2,...) is assigned to several communication units and the additional time slots are allocated to communication units different from said first communication unit (10).

6. Method for allocating time slots according to ~~one of the preceding claims~~ claim 1,
characterized in,

that in case that an additional time slot (7) of a preceding fixed block and an additional time slot (8) of a succeeding fixed block are adjacent to each other, a guard period (17) is provided in at least one of said adjacent additional time slots.

7. Method for allocating time slots according to claim 6,
characterized in,
that said additional time slot (7) of said preceding fixed block is a receiving time slot and said additional time slot (8) of said succeeding fixed block is a transmitting time slot, whereby said guard period (17) is provided at the end of said receiving time slot (7).

8. Means (15) for allocating time slots in a time division duplex communication system, in which the information is transmitted in predetermined time frames (F) having a predetermined number of time slots, whereby each time frame (F_1, F_2,...) comprises a fixed block of one receiving time slot (2) and one transmitting time slot (1) being adjacent to each other, said means (15) allocating at least the time slot (2) adjacent to the receiving time slot as additional receiving time slot and at least the time slot (8) adjacent the transmitting time slot (1) as additional transmitting time slot dependent on an amount of information to be transferred.

9. Means for allocating time slots according to claim 8,
characterized in,
that the number of additional receiving time slots and the number of additional transmitting time slots are independent from each other.

10. Means for allocating time slots according to claim 8 ~~or 9~~;
characterized by
allocating the one receiving and one transmitting time slot (2, 1) of the fixed block to a first communication unit, whereby the transmitting time slot (1) is preceding the receiving time slot (2).

11. Means for allocating time slots according to claim 10,
characterized by
allocating the additional slots are also to the first communication unit (10).

12. Means for allocating time slots according to claim 8 ~~one of the claims 8 to 10~~;
characterized in,

that one time frame (F_1, F_2,...) is assigned to several communication units and the additional time slots are allocated to communication units different from said first communication unit (10).

13. Means for allocating time slots according to ~~one of the claims 8 to 12,~~ claim 8 **characterized by**
a guard period means (16), which, in case that an additional time slot (7) of a preceding fixed block and an additional time slot (8) of a succeeding fixed block are adjacent to each other, provides a guard period (17) in at least one of said adjacent additional time slots.

14. Means for allocating time slots according to claim 13,
characterized in,
that said guard period means (16), if said additional time slot (7) of said preceding fixed block is a receiving time slot and said additional time slot (8) of said succeeding fixed block is a transmitting time slot, provides said guard period (17) at the end of said receiving time slot (7).

Add A8)